

Corso: **DESIGN THE COMPLEXITY**

Docente: PROF. MARCO PIVA

Semestre: 2°

Lingua di erogazione: INGLESE

N° max studenti ammessi: 70 POLITECNICO + 20 ERASMUS

Modalità d'esame per non frequentanti: NO

Note: /

| Prodotto | Interni | Comunicazione | Fashion | D&E | PSSD |
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| ✓ | ✓ | ✓ | ✓ | x | ✓ |

DESIGN THE COMPLEXITY

The Theme of Housing Design has always been one of the more strategic and complex in the history of Architecture and Design since the first human dwellings. How to interpret and solve the needs for appropriate living spaces is still a challenge all over the world. Facing the actual conditions where populations are globally abandoning country areas for cities and millions of people are moving across borders from a country to another and even from a continent to another, new Design Strategies should be define. Students will be guided to focus their attention to some of the major questions placed at the base of future Housing Design:

- How to choose the locations for the new residential complexes.
 - How to decide if is the case to transform existing structures from other functions to residential
 - How to define dimensions and features of the buildings.
 - Which principles are to be followed to reach the appropriate quality for habitation spaces.
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The more and more relevant issues of safety and security of public and private living spaces must be taken in considerations, new technologies are available to reduce the use of energy and optimize it, new construction materials and technologies could be implemented to achieve generally and specifically better housing solutions.

“ HOUSING : DESIGN THE COMPLEXITY “ will treat these issues in opened discussions. Students will be lead through specific Case Histories at the different scale of design, from Master Plans to Architecture and then, from the more detailed level of Interior Design to some Product Design cases.

Different housing typologies and projects will be analyzed trough references taken from different places in the world: Historical City in Italy, New Developments in the Middle East, New Housing in Russia, High Rise Residential Buildings in China, Single Houses in USA.

Beside studying history and trends, Students will be also called to elaborate their own vision of Future Housing proposing their Habitation Concept Design based on some of the following topics:

- City transformation and evolution
- The role of residential quarters and buildings as parts of the city organism
- New needs and functions for the future housing
- New ways of conceiving inner spaces
- The relevant role of the public spaces in the residential complex
- Kitchen and bathrooms as dynamical spaces in the new housing design
- Relations between inner and outer spaces
- Materials and finishes
- The role of technology

“HOUSING: DESIGN THE COMPLEXITY” will be an open Design Workshop where theories and practical approaches will create a new consciousness about the Architect and Designer role in the future world
